

ABSTRACT OF THE DISCLOSURE

A method and a system for determining temperature and/or emissivity of an object by remote sensing are described. Based on the concept of temperature and emissivity determination, there are also developed a method and a system for the detection and recognition of an object that includes a plurality of sub-objects. The method for the detection and recognition of an object comprises acquiring, inter alia, electromagnetic radiation data of electromagnetic radiation emitted from a selected region in at least two spectral bands, recording and storing the acquired electromagnetic radiation data, deriving descriptive maps constituted by pixels of the selected region from the stored data and classifying the pixels of said descriptive maps of said selected region by pattern recognition processor means.